FOR USE IN STRUCTURAL CONCRETE: RETARDING ADMIXTURES GUIDELINES FOR DOSAGE RATES WITH ANTICIPATED WORKING TIME LIMITS

- 1. Dosage is in mL/kg (fluid ounces per 100 lbs.) of cement and fly ash.
- 2. Check percent of air as retarding admixtures tend to increase air contents

		No		LC	Plastocrete	Plastiment	Pozzolith	Daratard	Eucon	Catexol	FR-IL
		Retarder		500R	161-MR	100	100XR	17	Retarder 100	1000 R	
Mix	Temp.	Working		Working	Working	Working	Working	Working	Working	Working	Working
a	at Point	Time	Dosage	Time	Time	Time	Time	Time	Time	Time	Time
of Dis	charge	Limit	mL/kg	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit
°C	°F	(hrs)	(fl.oz.)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)
13	(55)	3.8	1.3 (2)							4.5	
			2.0 (3)						9.6	5.5	
			2.6 (4)						10.4	7.0	
			3.3 (5)						12.3		
18	(65)	3.1	2.0 (3)	9.1	4.9	5.5	9.0		8.2	4.8	
	, ,		2.6 (4)	10.2	6.8	7.6			10.0	5.6	
			3.3 (5)	11.4	10.9	12.1			11.7	6.8	
			3.9 (6)	13.2	19.3	21.5			12.9		
24	(75)	2.5	2.0 (3)	6.2	3.4	3.8	6.1	4.3	7.5	5.2	4.4
	, ,		2.6 (4)	7.9	4.5	5.0	7.8	6.6	9.9	5.7	4.6
			3.3 (5)	9.4	6.6	7.4	9.2	7.6	11.9	6.7	4.8
			3.9 (6)		10.5	11.7			12.5		5.7
			4.6 (7)		18.0	20.1					
29	(85)	2.2	2.0 (3)	5.5	2.8	3.2	5.2	4.3	6.8	4.8	3.4
	()		2.6 (4)	6.1	3.5	3.9	6.7	5.2	9.6	5.4	3.6
			3.3 (5)	8.2	4.6	5.2	8.1	6.5	11.9	6.2	3.8
			3.9 (6)		6.5	7.3			11.9		4.0
			4.6 (7)		9.9	10.9					
			5.2 (8)								
35	(95)	1.9	2.0 (3)	4.7	2.1	2.4	4.5	3.9	6.8	4.5	
	()		2.6 (4)	6.2	2.6	2.9	6.0	4.4	9.9	5.1	
			3.3 (5)	7.6	3.3	3.7	7.4	5.7	11.8	5.7	
			3.9 (6)	8.1	4.6	5.2			11.8	6.5	
			4.6 (7)		7.0	7.9					
			5.2 (8)		11.6	12.9					

APPENDIX B APPROVED BRANDS OF WATER REDUCING AND RETARDING ADMIXTURES

FOR USE IN CONCRETE PAVEMENTS:

NOTE: Mixed-to-placed time period may be extended as per lowa DOT Standard Specifications Section 2301.13.D.

Brand Name	Producer/Distributor	Recommended Minimul/kg cementitious materials	mum Dosage fl. oz./100 lb. cementitious materials
Catexol 800 R	AXIM Concrete Technologies	2.0	3
Catexol 1000R	AXIM Concrete Technologies	2.0	3
Daratard 17	W.R. Grace & Company	2.0	3
Eucon Retarder 100	Euclid Chemical Company Distributed by Brett Admixtures	1.3	2
FR-IL	International Construction Material	s 3.3	5
LC-500R	RussTech	2.0	3
Plastiment 100	Sika Corporation Distributed by Contractors Steel Corporation	2.0	3
Plastocrete 161 M R	Sika Corporation	2.0	3
Pozzolith 100 X R	Master Builders Company	2.0	3
Pozzolith 200N	Master Builders	2.0	3
Polychem R	General Resource Technology	2.0	3
Standard Delayed Set	Fritz-Pak Corporation	2.6	4*
WRDA with Hycol	W.R. Grace & Company	2.0	3

^{*}Dry powdered admixture, pre-packaged in water-soluble bag.